## WHAT IS CLAIMED IS:

l	<ol> <li>A pharmaceutical composition for treating a disease associated with</li> </ol>				
2	one or more self-molecules present non-physiologically in a subject, the composition				
3	comprising:				
1	(a) an immune modulatory nucleic acid comprising a hexamer region of the				
5	formula 5'-Purine-Pyrimidine-[X]-[Y]-Pyrmidine-Pyrimidine-3', wherein X and Y are any				
5	naturally occurring or synthetic nucleotides except that X and Y cannot be cytosine-guanine;				
7	and				
3	(b) a pharmaceutically acceptable carrier.				
1	2. The composition of claim 1, wherein the immune modulatory nucleic				
2	acid further comprises a polyG region linked 5' or 3' to the hexamer region.				
1	3. The composition of claim 1, wherein the immune modulatory nucleic				
2	acid further comprises a first polyG region linked 5' to the hexamer region and a second				
3	polyG region linked 3' to the hexamer region.				
1	4. The composition of claim 1, wherein the immune modulatory nucleic				
2	acid is in a sterile vial.				
1	5. The composition of claim 1, wherein the immune modulatory nucleic				
2	acid is less than about 45 nucleotides in length.				
1	The composition of claim 1, wherein the immune modulatory nucleic				
2	acid further comprises a polynucleotide region encoding self-protein(s), -polypeptide(s) or -				
3	peptide(s).				
1	7. An nucleic acid composition comprising:				
2	a nucleic acid vector having at least one cytosine to non-cytosine substitution				
3	within a CpG motif, wherin the CpG motif is of the formula 5'-purine-pyrimidine-C-G-				
4	pyrimidine-pyrimidine-3' or 5'-purine-purine-C-G-pyrimidine-pyrimidine-3', and wherein the				
5	cytosine to non-cytosine substitution is within the CpG dinucleotide.				
1	8. The nucleic acid composition of claim 7, wherein the CpG motif is of				
2	the formula 5'-purine-pyrimidine-C-G-pyrimidine-pyrimidine-3'.				

ī	7. The composition of claim 7, wherein the cytosine to non-cytosine			
2	substitution is cytosine to guanine.			
1	10. The composition of claim 7, wherein the nucleic acid vector has a			
2	plurality of cytosine to non-cytosine substitutions.			
1	11. A method for treating a disease in a subject associated with one or			
2	more self-molecules present non-physiologically in the subject, the method comprising:			
3	administering to the subject an immune modulatory nucleic acid comprising a			
4	hexamer region of the formula 5'-Purine-Pyrimidine-[X]-[Y]-Pyrmidine-Pyrimidine-3',			
5	wherein X and Y are any naturally occurring or synthetic nucleotides except that X and Y			
6	cannot be cytosine-guanine.			
1	12. The method of claim 11, wherein the immune modulatory nucleic acid			
2	further comprises a polyG region linked 5' or 3' to the hexamer region.			
1	13. The method of claim 11, wherein the immune modulatory nucleic acid			
2	further comprises a first polyG region linked 5' to the hexamer region and a second polyG			
3	region linked 3' to the hexamer region.			
1	14. The method of claim 11, wherein the disease is an autoimmune			
2	disease.			
1	15. The method of claim 14, wherein the disease is multiple sclerosis.			
1	16. The method of claim 14, wherein the disease is rheumatoid arthritis.			
1	17. The method of claim 14, wherein the disease is insulin dependent			
2	diabetes mellitus.			
1	18. A method for treating a disease in a subject associated with one or			
2	more self-molecules present non-physiologically in the subject, the method comprising:			
3	administering to the subject an immune modulatory nucleic acid comprising a			
4	hexamer region of the formula 5'-Purine-Purine-[X]-[Y]-Pyrmidine-Pyrimidine-3'; wherein X			
5	and Y are any naturally occurring or synthetic nucleotides except that X and Y cannot be			
6	cytosine-guanine.			

1		19.	The method of claim 18, wherein the immune modulatory nucleic acid		
2	further comprises a polyG region linked 5' or 3' to the hexamer region.				
1		20.	The method of claim 18, wherein the immune modulatory nucleic acid		
2	further comprises a first polyG region linked 5' to the hexamer region and a second polyG				
3	region linked 3' to the hexamer region.				
1		21.	The method of claim 18, wherein the disease is an autoimmune		
2	disease.				
1		22.	The method of claim 21, wherein the disease is multiple sclerosis.		
1		23.	The method of claim 21, wherein the disease is rheumatoid arthritis.		
1		24.	The method of claim 21, wherein the disease is insulin dependent		
2	diabetes melli	tus.			